

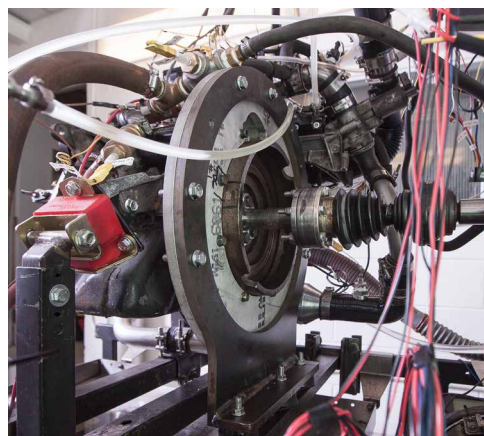
Mechanical & Materials Engineering

MEng Map

Applying to and Navigating Graduate Studies

Why Graduate Studies in Mechanical & Materials Engineering?

As a Master's student in the field of Mechanical and Materials Engineering (MME), you can play a vital role in future developments in such areas as: ergonomics, biomechanics and tissue engineering, assistive technologies, emerging techniques in MRI and CTI imaging, fuel cells, fluid flow, gas turbines, design optimization, robotics, ceramics and polymers, atomistic simulations on long and short timescales, corrosion and environmental degradation of materials, development of improved materials for nuclear reactor applications, laser additive manufacturing of metals, and many other areas. Mechanical & Materials Engineering continues to play a vital role in modern life.



Graduate students and their work are an important part of an ongoing research process that provides the community with ways of understanding natural, cultural,



imaginative, social, and technological phenomena.

Why Queen's?

As a Master's student in Mechanical and Materials Engineering at Queen's you are part of one of the most research intensive universities in Canada.

Our research program is internationally renowned with a wide range of research activities in all of the major specialization areas of Mechanical and Materials Engineering.

The Mechanical and Materials graduate program has been recognized for the quality of its academic and research programs. It also focuses on multidisciplinary, collaborative research with faculty in other departments, other faculties, and other universities.

Program Structure

MEng (3 semesters): course-based program with eight term-length courses chosen by the student. Some course permissions/approvals required for classes taken outside of the student's "home" Dept. Students have the option to do a project course under a supervisor's direction during Winter or Summer term worth 3.0 units. This is an academic program and courses must be passed with a 70% or higher.

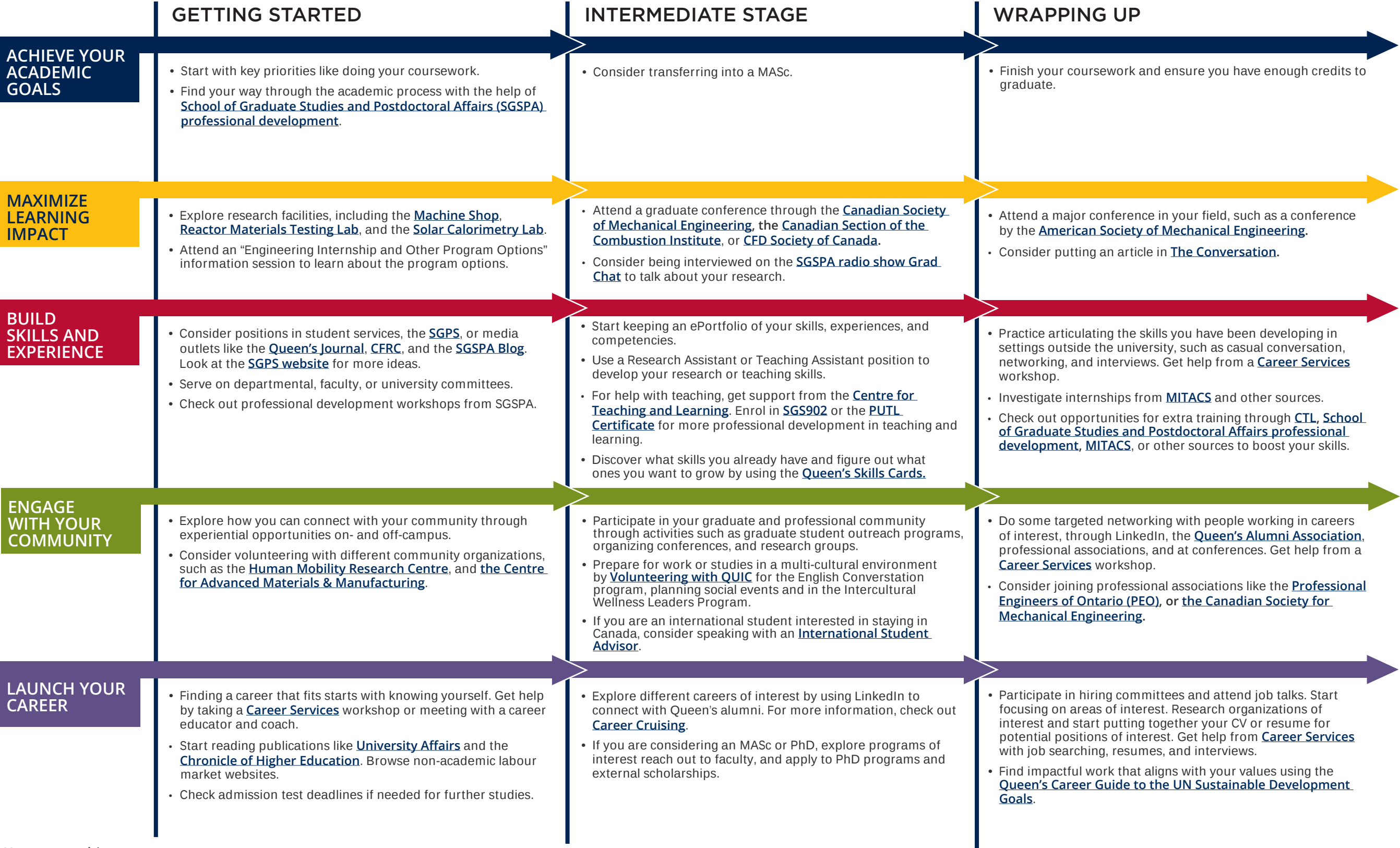
Key Competencies

- Component Performance/Design
- Engineering Analysis
- Engineering Measurements
- Integrated System Modeling

Visit the [Mechanical and Materials Engineering website](https://www.queensu.ca/grad-postdoc) to read about program options.

Mechanical & Materials Engineering MEng Map

MASTER OF ENGINEERING (MEng)



Knowledge & Workplace Skills

A graduate degree in Mechanical Engineering can equip you with valuable and versatile skills, such as:

- **Knowledge and technical skills**
- **Effective communication skills** in multiple forms for diverse audiences
- **Information management:** prioritize, organize, and synthesize large amounts of information
- **Time management:** meet deadlines and manage responsibilities despite competing demands
- **Project management:** develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions
- **Creativity and innovation**
- **Perseverance**
- **Independence** and experience as a collaborative worker
- **Awareness**, an understanding of sound ethical practices, **social responsibility**, responsible research, and **cultural sensitivity**
- **Professionalism** in all aspects of work, research, and interactions
- **Leadership:** initiative and vision leading people and discussion

Career Possibilities

A Master's degree in Mechanical & Materials Engineering can take your career in many directions. Many of our MEng students choose to continue their academic career with an MASc or PhD. Our Master's students are equipped with a strong foundation for careers in numerous sectors, such as:

- Consulting
- Government
- Industry – Design Engineer

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.

How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. To make your own custom map, use the My Grad Map tool: careers.queensu.ca/gradmaps.

Graduate Studies FAQs

How do I make the most of my time at Queen's?

Use the Grad Map to plan for success in five overlapping areas of your career and academic life. Everyone's journey is different - the ideas on the maps are just suggestions to help you explore possibilities. For more support with your professional development, take advantage of the SGSPA professional development framework and the new Professional Development Plan (PDP) process to set customized goals to help you get career ready when you graduate.

Where can I get help?

Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming environment offers the programs and services you need to be successful, both academically and personally. Check out the [SGSPA website](#) for available resources.

What is the community like?

Queen's offers graduate students from every discipline a close-knit intellectual community where they can learn, discover, and build lasting connections. With more than 130 graduate programs across 50+ departments and research centres, students benefit from world-class scholars, prize-winning professional development, generous funding packages, and life in the historic waterfront city of Kingston. The campus sits at the heart of Kingston, just a 10-minute walk from downtown's shops, restaurants, and waterfront, and is deeply integrated with the local community. For more on Kingston's history and culture, see Queen's University's Discover Kingston page.

Application FAQs

What do I need to know to Apply?

ACADEMIC REQUIREMENTS

- Honours Bachelor's degree in Applied Science or Engineering.
- **Grade requirements:** minimum cumulative average of a B (73-76.9%).

ADDITIONAL REQUIREMENTS

- If English is not a first language, nor was the language of instruction in undergraduate studies, prospective students must meet English language proficiency requirements in writing, speaking, reading, and listening as part of the application process, and before final acceptance is granted, as per School of Graduate Studies and Postdoctoral Affairs' regulations.

KEY DATES & DEADLINES

- **Application deadline:** No hard deadline. It is encouraged that prospective domestic and international students apply before March 1st to allow time to apply for study permits/visas if, and when applicable to the student.
- **Notification of acceptance:** End of March to July for September admissions.

Before you start your application, please review the Graduate studies application process.

What about Funding?

M.Eng. students in a coursework program do not receive financial support, although some M.Eng. students may be hired as teaching assistants (TAs). These TA positions are advertised by the department typically in August (to start in September), and again in December or early January (to start in January). These positions are not guaranteed. For application procedures please see the School of Graduate Studies and Postdoctoral Affairs website. For more information on awards and scholarships, consult the School of Graduate Studies and Postdoctoral Affairs' website.

